

Shipping World & Shipbuilder

EDITORIAL INDEX

January-June
Volume 17
Numbers 3

ARTICLES, General

- 90 Is survival guaranteed for Kockums
- 81 Gas Carriers — slowly but surely
- 15 Sale & Purchase — a year that defeated the forecasters
- 17 The freight market in 1979 — a steady improvement
- 21 Insurance — a dramatic loss of tonnage
- 362 Setenave — yard at the crossroads
- 374 Open registry study

ARTICLES, Technical

- 85 Bergesen order LPG carrier from Wärtsilä
- 315 Regular crossing, Irregular conditions (Danfoss)
- 137 Samba container crane
- 133 Straddle Tug and Barge system
- 309 Underwater treatment of hulls — the financial aspect
- 365 Fuels and lubricants

DIESEL ENGINES

- 76 ACB
- 295 Alstom Atlantique: SEMT Pielstick
- 76 Crepelle
- 76 Navipack
- 305 Ruston Diesels
- 305 Sembawang Shipyard

EQUIPMENT

- 95 Aquatech
- 240 Arctic Heating
- 169 Boeing Marine Systems
- 73 Brissonneau & Lotz; & 295
- 295 Bristol Uniforms Ltd
- 295 S. G. Brown Ltd
- 127 Brødr. Brunvoll
- 295 Butterworth Systems
- 298 Camrex Ltd H. Clarkson & Co
- 169 Carbo Craft Ltd
- 193 Cargospeed
- 279 Cheverton
- 315 Danfoss Automatics
- 249 Decca Survey Ltd; & 298
- 119 Deep Sea Seals
- 299 Dufay Titanine
- 95 Electronics Marine
- 129 Escher Wyss
- 240 Fekete & Co; & 299
- 289 O. Fjeldsend A/S
- 177 Graco
- 240 Hartmann
- 237 Helix
- 299 Hempel's Marine Paints
- 63 Hughes, Kelvin
- 281 International Marine Radio Company
- 301 Iotron
- 309 Jotun Marine Coatings
- 123 KaMeWa
- 165 Kongsberg Vapenfabrikk
- 237 Kvaerner Brug
- 235 Heien-Larsen
- 98 Liebherr; & 185
- 129 Lohmann & Stolterfoht; & 301

- 47 S. T. Lyngsø
- 301 Morgan Berkeley & Co Ltd
- 303 Napier Turbochargers Ltd
- 287 National Marine Service Inc
- 249 Norcontrol
- 193 Orenstein & Koppel
- 303 Pains-Wessex Schermuly
- 67 Radar Devices Inc
- 127 Railko
- 67 Raytheon
- 123 Renk Marine Gears
- 251 RFD
- 37 Sabroe Marine; & 185
- 67 Sait Electronics
- 191 Schätt Davits
- 240 Signalco
- 43 Skanti
- 117 SKF
- 95 Sorbothane
- 235 Sperre
- 59 Sperry Marine; & 98
- 98 Telegan
- 183 Transocean
- 98 Vokes
- 307 James Walker Group
- 95 Wallsend Slipway
- 249 Weishaupt (UK) Ltd

EXHIBITIONS

- 293 Posidonia preview

HEARD ON THE BALTIC

- 17 The freight markets in 1979
- 147 Going against the grain
- 195 The pendulum returns
- 253 Dry rise oil slump
- 321 Coal and steel set the trend
- 377 Atlantic high

INSURANCE

INTERVIEWS

- 241 Mr Bernt J. Groendahl, Managing Director, Den Norske Amerikalinje A/S
- 26 Mr John Parker, Board Member for Merchant Shipping, British Shipbuilders
- 272 Rear-Admiral Michael Stacey, Director, UK Marine Pollution Control Unit

VIEWPOINT

- 107 Dr David Hilling
- 155 Mr Gustav Drphse
- 207 Mr Fred Ellis

MARITIME ORGANISATIONS

- 317 American Bureau of Shipping
- 299 DNV: Det Norske Veritas
- 3 General Council of British Shipping
- 301 Institute of London Underwriters
- 262 International Maritime Industries Forum

- 317 Lloyd's Register of Shipping
- 154 Norwegian Seamen's Union
- 231 Norwegian Shipowners' Association
- 262 Royal Institute of Naval Architects
- 305 Salvage Association
- 154 Shipowners' P & I Association
- 293 Union of Greek Shipowners

PEOPLE

- 97 Miscellaneous
- 145 Miscellaneous
- 199 Miscellaneous
- 255 Miscellaneous
- 319 Miscellaneous
- 375 Miscellaneous

SALE AND PURCHASE

- 99 Monthly
- 148 Monthly
- 200 Monthly
- 257 Monthly
- 323 Monthly
- 378 Monthly

SHIPBUILDERS AND SHIPREPAIRERS

- 37 Aalborg Vaerft, Denmark
- 93 Astilleros Espanoles, Spain
- 151 Austin & Pickersgill, UK
- 165 Bath Iron Works, USA
- 163 Bremer Vulkan, W. Germany
- 206 British Shipbuilders; also 2
- 33 Burmeister & Wain, Denmark
- 81 Chantiers de France
- 69 Chantiers de l'Atlantique, France
- 33 Dannebrog Vaerft, Denmark
- 161 Hall, Russell & Co, UK
- 120 Hollming Oy, Finland
- 301 Howaldtswerke-Deutsche, Germany
- 202 IHC, Netherlands
- 247 Litton Industries, USA
- 90 Kockums, Sweden
- 245 Naskov Skibsvaerft, Denmark
- 229 Nippon Kokan, Japan
- 303 Rauma-Repola Oy, Finland
- 303 RSV: Rijn Schelde Verolme
- 202 Sasebo, Japan
- 305 Smit International, Netherlands
- 151 Swedyard, Sweden
- 239 Ulstein Hatlø, Norway
- 13 Valmet, Finland; & 307
- 169 Vosper Thornycroft, UK; &
- 85 Wärtsilä, Finland
- 307 Y-ARD Ltd, UK
- 165 Yarrow, UK

SHIPOWNERS

- 231 Bergesen, Norway
- 317 Esso Petroleum Co, UK
- 223 Hansa Linie, W. Germany
- 98 Hapag Lloyd, W. Germany

Shipping World & Shipbuilder

EDITORIAL INDEX

January-June
Volume 17
Numbers 3-6

ARTICLES, General

- 90 Is survival guaranteed for Kockums
- 81 Gas Carriers — slowly but surely
- 15 Sale & Purchase — a year that defeated the forecasters
- 17 The freight market in 1979 — a steady improvement
- 21 Insurance — a dramatic loss of tonnage
- 362 Setenave — yard at the crossroads
- 374 Open registry study

ARTICLES, Technical

- 85 Bergesen order LPG carrier from Wärtsilä
- 315 Regular crossing, Irregular conditions (Danfoss)
- 137 Samba container crane
- 133 Straddle Tug and Barge system
- 309 Underwater treatment of hulls — the financial aspect
- 365 Fuels and lubricants

DIESEL ENGINES

- 76 ACB
- 295 Alstom Atlantique: SEMT Pielstick
- 76 Crepelle
- 76 Navipack
- 305 Ruston Diesels
- 305 Sembawang Shipyard

EQUIPMENT

- 95 Aquatech
- 240 Arctic Heating
- 169 Boeing Marine Systems
- 73 Brissonneau & Lotz; & 295
- 295 Bristol Uniforms Ltd
- 295 S. G. Brown Ltd
- 127 Brødr. Brunvoll
- 295 Butterworth Systems
- 298 Camrex Ltd H. Clarkson & Co
- 169 Carboircraft Ltd
- 193 Cargospeed
- 279 Cheverton
- 315 Danfoss Automatics
- 249 Decca Survey Ltd; & 298
- 119 Deep Sea Seals
- 299 Dufay Titanine
- 95 Electronics Marine
- 129 Escher Wyss
- 240 Fekete & Co; & 299
- 289 O. Fjeldsend A/S
- 177 Graco
- 240 Hartmann
- 237 Helix
- 299 Hempel's Marine Paints
- 63 Hughes, Kelvin
- 281 International Marine Radio Company
- 301 Iotron
- 309 Jotun Marine Coatings
- 123 KaMeWa
- 165 Kongsberg Vapenfabrikk
- 237 Kvaerner Brug
- 235 Heien-Larsen
- 98 Liebherr; & 185
- 129 Lohmann & Stolterfoht; & 301

- 47 S. T. Lyngsø
- 301 Morgan Berkeley & Co Ltd
- 303 Napier Turbochargers Ltd
- 287 National Marine Service Inc
- 249 Norcontrol
- 193 Orenstein & Koppel
- 303 Pains-Wessex Schermuly
- 67 Radar Devices Inc
- 127 Railko
- 67 Raytheon
- 123 Renk Marine Gears
- 251 RFD
- 37 Sabroe Marine; & 185
- 67 Sait Electronics
- 191 Schätt Davits
- 240 Signalco
- 43 Skanti
- 117 SKF
- 95 Sorbothane
- 235 Sperre
- 59 Sperry Marine; & 98
- 98 Telegan
- 183 Transocean
- 98 Vokes
- 307 James Walker Group
- 95 Wallsend Slipway
- 249 Weishaupt (UK) Ltd

EXHIBITIONS

- 293 Posidonia preview

HEARD ON THE BALTIC

- 17 The freight markets in 1979
- 147 Going against the grain
- 195 The pendulum returns
- 253 Dry rise oil slump
- 321 Coal and steel set the trend
- 377 Atlantic high

INSURANCE

INTERVIEWS

- 241 Mr Bernt J. Groendahl, Managing Director, Den Norske Amerikalinje A/S
- 26 Mr John Parker, Board Member for Merchant Shipping, British Shipbuilders
- 272 Rear-Admiral Michael Stacey, Director, UK Marine Pollution Control Unit

VIEWPOINT

- 107 Dr David Hilling
- 155 Mr Gustav Drphse
- 207 Mr Fred Ellis

MARITIME ORGANISATIONS

- 317 American Bureau of Shipping
- 299 DNV: Det Norske Veritas
- 3 General Council of British Shipping
- 301 Institute of London Underwriters
- 262 International Maritime Industries Forum

- 317 Lloyd's Register of Shipping
- 154 Norwegian Seamen's Union
- 231 Norwegian Shipowners' Association
- 262 Royal Institute of Naval Architects
- 305 Salvage Association
- 154 Shipowners' P & I Association
- 293 Union of Greek Shipowners

PEOPLE

- 97 Miscellaneous
- 145 Miscellaneous
- 199 Miscellaneous
- 255 Miscellaneous
- 319 Miscellaneous
- 375 Miscellaneous

SALE AND PURCHASE

- 99 Monthly
- 148 Monthly
- 200 Monthly
- 257 Monthly
- 323 Monthly
- 378 Monthly

SHIPBUILDERS AND SHIPREPAIRERS

- 37 Aalborg Værft, Denmark
- 93 Astilleros Espanoles, Spain
- 151 Austin & Pickersgill, UK
- 165 Bath Iron Works, USA
- 163 Bremer Vulkan, W. Germany
- 206 British Shipbuilders; also 2
- 33 Burmeister & Wain, Denmark
- 81 Chantiers de France
- 69 Chantiers de l'Atlantique, France
- 33 Dannebrog Værft, Denmark
- 161 Hall, Russell & Co, UK
- 120 Hollmings Oy, Finland
- 301 Howaldtswerke-Deutsche, Germany
- 202 IHC, Netherlands
- 247 Litton Industries, USA
- 90 Kockums, Sweden
- 245 Naskov Skibsværft, Denmark
- 229 Nippon Kokan, Japan
- 303 Rauma-Repola Oy, Finland
- 303 RSV: Rijn Schelde Verolme
- 202 Sasebo, Japan
- 305 Smit International, Netherlands
- 151 Swedwards, Sweden
- 239 Ulstein Hatlø, Norway
- 13 Valmet, Finland; & 307
- 169 Vosper Thornycroft, UK; &
- 85 Wärtsilä, Finland
- 307 Y-ARD Ltd, UK
- 165 Yarrow, UK

SHIPOWNERS

- 231 Bergesen, Norway
- 317 Esso Petroleum Co, UK
- 223 Hansa Linie, W. Germany
- 98 Hapag Lloyd, W. Germany

June 1980

173

3961-3966

MONTH PAGES

January	1-104
February	105-152
March	153-204
April	205-260
May	261-328
June	329-380

Supplements and features

Denmark		Norway	
January issue	29-47	April issue	
French review		Paint & Corrosion	
January issue	69-77	March issue	
Heavy Lift		Pollution	
April issue	223-229	May issue	
Naval Construction Review		Safety at Sea	
March issue	161-173	June issue	
Navigation and Telecommunications		Transmissions & Propulsion	
January issue	51-67	February issue	
		Special Supplement — April	
		Centromor — 30 years on	

Shipping
Union
ers' Association
val Architects
society
owners

231	L. Hoegh & Co, Norway
235	Klosters Rederi, Norway
241	Nordana Line
241	Norwegian Line A/S, Norway
245	Pakistan National Shipping
225	Project Carriers & Co, W. Germany
271	Salen
221	Starman Shipping, UK
227	Wijmsmuller, Netherlands
257	Wolh. Wilhelmsen, Norway
225	World Wide (Shipping) Ltd, Hong Kong

SHIPS

93	Amoco Chicago, Lib, oil tanker D
371	BP Harrier, UK, Products tkr, D
165	Battleaxe, UK, frigate, gas T
185	Canadian Reefer, Den, reefer, D
229	Dana Caribia, Lib, heavy lift, D
173	Erinni, Nig, corvette
245	Makran, Pak, bulk carrier, D
69	Pierre Guillaumat, France, ULCC, T
246	Saipan, USA, amphibious assault, T
89	Sibofir, Nor, bulk carrier, D
191	Spirit of Free Enterprise, UK, ro/ro pass, D
13	Tibor Szamuely, USSR, barge carrier, D
33	White Nile, Sud, cargo, D

TRADE

98	Miscellaneous
139	Miscellaneous
317	Miscellaneous

EQUIPMENT

95	Miscellaneous
140	Miscellaneous
251	Miscellaneous
376	Miscellaneous

YARD BUSINESS

101	Monthly
151	Monthly
202	Monthly
259	Monthly
325	Monthly
379	Monthly

SPECIAL FEATURES

DENMARK

29	Low land, high hopes
33	Burmeister & Wain; Hamlet multi-flex ships
33	Dannebrog Vaerft
37	Marine refrigeration
37	Order for cruise liner at Aalborg
39	Aalborg Vaerft marine equipment
43	DFDS Danish Seaways crosses Atlantic
43	Skanti radio-telephone equipment
47	Søren T. Lyngsø main engine control system

FRENCH REVIEW

69	France and gas carriers
73	Deck cranes from Brissonneau & Lotz
76	Diesel engines from Crepelle
76	ACB develop tug-barge system
76	Navipack
77	LPG containment systems by Gaz-Transport

HEAVY LIFT REVIEW

223	Large module assembly
225	Hong Kong's heavies
225	'Project Americas': multi-purpose design
227	Super Servants
229	Nordana re-equips with NKK omni-carriers

NAVAL CONSTRUCTION REVIEW

161	New salves on troubled waters
161	Jumping the gun: new offshore patrol vessels
163	German Navy constructs new class of frigate
165	Yarrow Shipbuilders; type 22 frigate
165	Norwegian Navy submarines
165	Bath Iron Works Corporation
169	New jetfoil for evaluation by Royal Navy
169	Carbocraft catamaran
169	Vickers 2400 submarine
173	Italian submarine
173	Vosper Thornycroft activities
173	Ski-ramp for Harrier VTO/L aircraft

NAVIGATION AND TELECOM-MUNICATION

51	Transit satellite navigation
55	Weather routing
59	Sperry CAS II
63	Training
63	Equipment variations
67	High Speed telex from Belgium

NORWAY

231	Norway, land of the entrepreneur
235	Heien-Larsen fire-fighting equipment
235	Sperre air compressors and heat ex-changers
237	Helix propellers
237	Kvaerner Brug cargo handling
239	'Tender Captain': pipe-carrier from Uls-tein Hatle
240	Nornews: monitoring systems and hull cleaning equipment
241	Outlook from Oslo: interview with B. J. Groendahl, managing director of Den Norske Amerikalinje A/S

PAINT AND CORROSION

175	Ship painting — allowance or investment?
175	Tank and space coatings from Japan
177	New application tools
183	Developments in marine paints — Trans-ocean's view

POLLUTION

271	Introduction:
272	Interview with
	Stacey, UK M
	Control Unit
279	Floating ideas
281	Automation u
287	Complete bilg
289	Magnetic wat
289	Petromar '80
291	Tankcleaning

SAFETY AT

341	No mistakes t
343	Liferafts — w
347	New firefight
349	Another RNL
349	High perform
353	Liferaft ancl
357	Keeping anti-
361	AFA — Mine

TRANSMISSI

	SYSTEMS
117	Improved turn
117	SKF bearings:
119	Deep Sea Seals
120	Aquamaster u
123	Renk marine g
123	Offshore tech
	KaMeWa thru
127	Railko bearing
127	Brodr. Brunv
129	Escher Wyss:
129	Lohmann & S

SPECIAL SUPPL

	POLISH SHIP
	(CENTROMO
1	The Polish shi
4	Interview with
	director of Ce
23	The position
	shipbuilding in
33	Strategy of th
	dustury for the
37	Shipbuilding i
47	Polish shipyar
53	The shipowner

ASE

ND

mark
Spain
UK
SA
Germany
also 262 & 26
Denmark
ique, France; & 258
Denmark
UK
d
tsche Werft, Ger-
SA
Denmark
an
Finland
erolme, Netherlands
Netherlands

ay
07
UK; & 173

UK
rmany
ermany

80

966

MONTH PAGES

January	1-104
February	105-152
March	153-204
April	205-260
May	261-328
June	329-380

Supplements and features

Denmark		Norway	
January issue	29-47	April iss	
French review		Paint & Cor	
January issue	69-77	March i	
Heavy Lift		Pollution	
April issue	223-229	May iss	
Naval Construction Review		Safety at Se	
March issue	161-173	June iss	
Navigation and Telecommunica-		Transmissio	
tions		Februa	
January issue	51-67	Special Sup	
		Centromor	

- 1 L. Hoegh & Co, Norway
- 5 Klosters Rederi, Norway
- 9 Nordana Line
- 1 Norwegian Line A/S, Norway
- 5 Pakistan National Shipping
- 5 Project Carriers & Co, W. Germany
- 1 Salen
- 1 Starman Shipping, UK
- 7 Wijsmuller, Netherlands
- 7 Wolh. Wilhelmsen, Norway
- 5 World Wide (Shipping) Ltd, Hong Kong

SHIPS

- 3 Amoco Chicago, Lib, oil tanker D
- 1 BP Harrier, UK, Products tkr, D
- 5 Battleaxe, UK, frigate, gas T
- 5 Canadian Reefer, Den, reefer, D
- 9 Dana Caribia, Lib, heavy lift, D
- 3 Erinmi, Nig, corvette
- 5 Makran, Pak, bulk carrier, D
- 9 Pierre Guillaumat, France, ULCC, T
- 6 Saipan, USA, amphibious assault, T
- 9 Sibofir, Nor, bulk carrier, D
- 1 Spirit of Free Enterprise, UK, ro/ro pass, D
- 3 Tibor Szamuely, USSR, barge carrier, D
- 3 White Nile, Sud, cargo, D

TRADE

- 8 Miscellaneous
- 9 Miscellaneous
- 7 Miscellaneous

EQUIPMENT

- 5 Miscellaneous
- 40 Miscellaneous
- 51 Miscellaneous
- 76 Miscellaneous

YARD BUSINESS

- 01 Monthly
- 51 Monthly
- 02 Monthly
- 59 Monthly
- 25 Monthly
- 79 Monthly

SPECIAL FEATURES

- 29 DENMARK
- 29 Low land, high hopes
- 33 Burmeister & Wain; Hamlet multi-flex ships
- 33 Dannebrog Vaerft
- 37 Marine refrigeration
- 37 Order for cruise liner at Aalborg
- 39 Aalborg Vaerft marine equipment
- 43 DFDS Danish Seaways crosses Atlantic
- 43 Skanti radio-telephone equipment
- 47 Søren T. Lyngsø main engine control system

FRENCH REVIEW

- 69 France and gas carriers
- 73 Deck cranes from Brissonneau & Lotz
- 76 Diesel engines from Crepelle
- 76 ACB develop tug-barge system
- 76 Navipack
- 77 LPG containment systems by Gaz-Transport

HEAVY LIFT REVIEW

- 223 Large module assembly
- 225 Hong Kong's heaviest
- 225 'Project Americas': multi-purpose design
- 227 Super Servants
- 229 Nordana re-equips with NKK omni-carriers

NAVAL CONSTRUCTION REVIEW

- 161 New salvos on troubled waters
- 161 Jumping the gun: new offshore patrol vessels
- 163 German Navy constructs new class of frigate
- 165 Yarrow Shipbuilders; type 22 frigate
- 165 Norwegian Navy submarines
- 165 Bath Iron Works Corporation
- 169 New jetfoil for evaluation by Royal Navy
- 169 Caribcraft catamaran
- 169 Vickers 2400 submarine
- 173 Italian submarine
- 173 Vosper Thornycroft activities
- 173 Ski-ramp for Harrier VTO/L aircraft

NAVIGATION AND TELECOM-MUNICATION

- 51 Transit satellite navigation
- 55 Weather routing
- 59 Sperry CAS II
- 63 Training
- 63 Equipment variations
- 67 High Speed telex from Belgium

NORWAY

- 231 Norway, land of the entrepreneur
- 235 Heien-Larsen fire-fighting equipment
- 235 Sperre air compressors and heat exchangers
- 237 Helix propellers
- 237 Kvaerner Brug cargo handling
- 239 'Tender Captain': pipe-carrier from Ulstein Hatlø
- 240 Nornews: monitoring systems and hull cleaning equipment
- 241 Outlook from Oslo: interview with B. J. Groendahl, managing director of Den Norske Amerikalinje A/S

PAINT AND CORROSION

- 175 Ship painting — allowance or investment?
- 175 Tank and space coatings from Japan
- 177 New application tools
- 183 Developments in marine paints — Trans-ocean's view

es	
issue	231-241
corrosion	
h issue	175-183
issue	271-291
Sea	
issue	341-361
gions & Propulsion Systems	
uary issue	117-129
upplement — April issue	
or — 30 years on	

SHIPS KEY

Bik C	bulk carrier
C	general cargo ship
Bik C	bulk carrier
Cont	container ship
LNG	liquefied natural gas carrier
LPG	liquefied petroleum gas carrier
LASH	lighter abroad ship
OBO	ore/bulk/oil carrier
OC	ore carrier
O/OC	ore/oil carrier
Pass	passenger ship
Ref	refrigerated cargo ship
Ro/ro	roll on/roll off ship
Tkr	tanker
VLCC	very large crude carrier
(other specialist types normally stated in full)	
D	diesel
DE	diesel-electric
GT	gas turbine
T	turbine
TE	turbo-electric

POLLUTION

271	Introduction: Its at our door
272	Interview with Admiral Stacey, UK Marine Pollution Control Unit
279	Floating ideas
281	Automation unabated
287	Complete bilge management
289	Magnetic water treatment
289	Petromar '80
291	Tankcleaning

SAFETY AT SEA

341	No mistakes to big
343	Liferafts — what next? Part I
347	New firefighting monitor
349	Another RNLI prototype
349	High performance DF
353	Liferaft ancillaries
357	Keeping anti-pollution safe
361	AFA — Minerva firefighting

TRANSMISSION AND PROPULSION SYSTEMS

117	Improved turnover in a cyclical market
117	SKF bearings: Swedish steel at sea
119	Deep Sea Seals
120	Aquamaster units
123	Renk marine gears
123	Offshore technology the prime mover in KaMeWa thruster development
127	Railko bearings
127	Brodr. Brunvoll thrusters
129	Escher Wyss: controllable pitch propellers
129	Lohmann & Stolterfoht gears

SPECIAL SUPPLEMENT (APRIL ISSUE) POLISH SHIPBUILDING 1950-1980 (CENTROMOR 30 YEARSON)

1	The Polish shipbuilding industry
4	Interview with Mr K. Walkowiak, general director of Centromor
23	The position of Poland in the world's shipbuilding industry
33	Strategy of the Polish shipbuilding industry for the near future
37	Shipbuilding in the Polish economy
47	Polish shipyards' designers
53	The shipowners' view

Shipping World & Shipbuilder

EDITORIAL INDEX

July-December
Volume 174
Numbers 390

- ARTICLES, General**
- 422 Barging — an under-estimated transport mode
469 Brazil — land of opportunity
421 China shapes up to ship out
577 Coal-fired ships: New York 1980
385 Continuing flux in trading values
382 Crew negligence and major casualties at sea
555 DFDS: North Sea centenary
504 Port of Ghent
501 Port of Marseilles
759 Port of Liverpool
759 Port of Rouen
- ARTICLES, Technical**
- 703 Amphitruck — a new unloading system
700 The Catug system
581 Chemical transport in bulk
514 Diesel engines — Part 2
650 Extrusion success at Cammell Laird
648 Innovations at Mirreles Blackstone
509 Liferrafts — Part 2
506 Navigation aids
647 New engine ratings from Sulzer
513 NKK research into ice on ships and off-shore structures
761 Occidental's big lift at Blackwall
704 Watercraft — new designs and continuing series
- DIESEL ENGINES**
- 514 APE-Allen
409 B & W; also 517, 561
514 Crossley
616 Deutz
413 Doxford; and 403
411 GMT; also 616
515 Hawker Siddeley Marine Ltd
413 Kincaid
515 Lister Marine
648 Mirreles Blackstone; also 405
515 Petter Marine
403 SEMT-Pielstick; also 514
413 Stork Werkspoor
407 Sulzer; also 647, 572
516 Wärtsilä-Vasa
- EQUIPMENT**
- 519 Aardee
507 AGA Navigation
561 Becker
583 Beldam Packing
583 BOC Ltd
561 Boll & Kirch
551 Cargospeed Ltd
637 J. C. Carter
583 CCR
581 Ceman
635 Clouth
639 Davis of Derby
437 Decca
572 Escher Wyss
563 Fram Industrial
643 Framo
447 Furuno
519 Gloucester Valve Ltd
563 Hamworthy Engineering
553 Hydralift
549 Jones Cranes
563 Kelvin Hughes
447 Krupp Atlas
659 Kvaerner Engineering
506 Laurence, Scott & Electromotors
637 Lockheed
541 MacGregor
551 MAN; & 563
569 MTU
569 Napier Turbochargers
445 Navigation Communication Systems
569 Nordelektro
519 Nu-Swift
497 OMI
506 Raytheon
447 Redifon Telecommunications
509 RFD
583 Saab-Scania
569 Schiffko
572 Schottel
572 Seetechnik
507 Seiko
443 Simrad
572 Sulzer
573 Tacke
575 Technolog
443 Tracor
519 Tretol
506 Vitavox
575 Vokes
575 Vulkan
704 Watercraft
445 Western Marine Electronics
- EXHIBITIONS**
- 581 MariChem '80, London
561 SMM, Hamburg
- HEARD ON THE BALTIC**
- 523 Slack water
596 Japan energises the coal market
715 Trans-Atlantic grain market expands
764 Port delays intensify rates
- INTERVIEWS**
- 733 Rear-Admiral Wayne Caldwell, US Coast Guard
413 Mr. Leo Curran, British Shipbuilders' board member for engine building
559 Mr. Erik Heirung, Managing Director of DFDS A/S
- MARITIME ORGANISATIONS**
- 581 Association of Tank Container Operators
414 Centromor
421 China Corporation of Shipbuilding Industry
489 Institute of London Underwriters
- 474 International Chamber of Shipping
489, 530
658 International Maritime Industries
489 International Salvage Union
603 Intertanko; & 658
385 Lloyd's Register of Shipping; &
659 Merchant Navy Training Board
489 Oil Companies' International Forum
483 Salvage Association
385 Shipbuilders' Council of America
469 Sunamam, Brazil
603 UNCTAD
483 Union of Greek Shipowners
- PEOPLE**
- 474 Miscellaneous
521 Miscellaneous
594 Miscellaneous
652 Miscellaneous
713 Miscellaneous
762 Miscellaneous
- SALE AND PURCHASE**
- 475 Monthly
524 Monthly
597 Monthly
653 Monthly
717 Monthly
765 Monthly
- SHIPBUILDERS AND SHIPREPAIRERS**
- 407 Ailsa Shipbuilders, UK
709 Appledore Shipbuilders, UK
679 Astilleros de Santander, Spain
541 Austin & Pickersgill, UK
511 Bergens Mek Verk, Norway
761 Blackwall Engineering, UK
413 British Shipbuilders, UK
598 Burmeister & Wain, Denmark
473 Caneco, Brazil
659 Chantiers de l'Atlantique, France
707 Cochrane Shipbuilders Ltd, UK
482 Crinavis, Spain
627 Cantieri Navali Riunti, Italy
473 EMAQ, Brazil
473 Estaleiros Sô/Ebin SA, Brazil
499 Halter Marine, USA
459 Harland & Wolff, UK; & 676
453 Hitachi Zosen, Japan
435 Hollmings Oy, Finland
449 IHI, Japan; & 457
473 Ishibras, Brazil
613 Italcantieri, Italy
478 Kockums, Sweden
449 Mitsubishi, Japan
482 Moss Rosenberg, Norway
433 Navire, Finland
451 Nippon Kokan, Japan; & 478,
645 O & K, W. Germany
429 Raumo-Repola, Finland
465 Uddevallavarvet, Sweden

mber 1980 4 3967-3972

MONTH PAGES	
July	381-480
August	481-528
September	529-600
October	601-656
November	657-720
December	721-768

Features

Bunkers		Italian review	
December issue	743-751	October issue	613-
Cargo handling (unitised & ro/ro)		Japan	
September issue	541-554	July issue	449-
Cargo handling (liquids)		Navigation	
October issue	635-645	July issue	437-
Car/passenger ferries		Pollution	
November issue	669-683	November issue	685-
Diesel engines		Safety at sea	
July issue	403-420	December issue	729-
Finland		Towage and salvage	
July issue	425-435	August issue	487-

of Shipping; &	431	Valmet, Finland
Industries Forum	473	Verolme, Brazil
on	575	Vickers Shipbuilding, UK
ng; & 405, 469	425	Wärtsilä, Finland; & 585, 669
Board	575	Werft Nobiskrug, W. Germany
ational Marine	673	AG 'Weser', W. Germany
	437	Yarrow, UK
		SHIPOWNERS
America	522	Bank Line; & 752
	429	Bore Line
rs	692	BP
	555	DFDS
	707	Esso
	385	Furness Withy; & 475
	475	Gulf Oil
	653	Hansa Line
	530	Hapag Lloyd
	411	Home Lines
	679	Islena de Navegacion
	598	Kuwait Oil Tanker Co
	629	Lauro Group
	414	OCL
	658	Odjell
	385	Philippines International Shipping Corp
	545	Polish Ocean Lines
	709	Rowbotham
	459	Sealink; & 676, 482
	752	Shaw Savill Line
	478	Shell; & 597
	489	Smit International
	482	SNCF
	495	United Towing
	427	Viking Line
	658	Westfal-Larsen & Co
	487	Wijsmuller
		BROKERS AND
		CHARTERERS
	654	H. Clarkson
	653	Eggar Forrester; & 385
	385	Fearnley & Egers; & 598
	385	Howard Houlder
	717	Lambert Brothers; & 385
	598	R. S. Platou; & 654
		SHIPS
	758	Andrea Merzario, Italy, Ro/Ro, D
	679	Bahia de Malaga, Spain, ro/ro, D
	709	Cableman, UK, product tkr, D
	692	Cosmos, Du, anti-pollution, D
	752	Dunedin, UK, cont, D
	629	Ercole Lauro, Italy, cont, D
	707	Esso Plymouth, UK, product tkr, D
	459	Galloway Princess, UK, ro/ro, D
	545	Hoegh Banniere, Nor, ro/ro, D
	511	Nordkapp, Nor, patrol, D
	673	Olau Hollandia, Den, ro/ro, D
	495	Salvageman, UK, tug, D
	700	Seabulk Challenger, USA, tug/barge, D
	453	Seagrand Ace, Lib, bulk, D
	676	St. Anselm, UK, ro/ro, D
	692	Svetlomor, USSR, anti-pollution, D
	465	Viking Eagle, Sing, oil tkr, D

585	Viking Saga, Fin, ro/ro, D
679	Visby, Swe, ro/ro, D
752	Willowbank, UK, cont, D
	TRADE
522	Miscellaneous
	VIEWPOINT
483	Mr. Neil Hudson, Salvage Association
531	Mr. Trevor Smith, E. C. Harris & Partners
603	Sir Yue-Kong Pao, Intertanko
659	LNG training courses
723	Flags of convenience
	YARD BUSINESS
478	Monthly
526	Monthly
598	Monthly
654	Monthly
718	Monthly
766	Monthly

SPECIAL FEATURES

	BUNKERS
743	Introduction
745	Tramp oil: a versatile independent
747	Do it yourself fuel care
749	Firing up the future: the coal bunker market
	CARGO HANDLING REVIEW
	(Unitised and ro/ro)
541	Hatch covers and ramps from MacGregor
543	New Gdynia container terminal
545	Poland deliver the <i>Hoegh Banniere</i>
	Navire wins major order for <i>Jumbo</i> ramps
549	Jones' heaviest yet
561	Cargo handling devices from Cargospeed
	Shipboard container cranes by M.A.N.
553	Hydraulics on deck
	The Linkspan aid to ro/ro
	CARGO HANDLING REVIEW
	(Liquids)
635	Introduction
	Rubber tank linings for the carriage of phosphoric acid
637	Pumping equipment from J. C. Carter
	Valve control by Lockheed hydraulic equipment
639	Level measurement systems from Davis of Derby
643	Deck tanks from M & J
	Hydrostatically-driven submerged cargo pumps from Framo
645	Chemical carrier with 24 segregated tanks
	Tank containers on trial
	CAR/PASSENGER FERRIES
669	On the stocks — or down
673	<i>Olau Hollandia</i> — 13 5
	AG 'Weser'
676	<i>St Anselm</i> — Variations
	Harland & Wolff
683	Two ferries from Astillero SA
679	<i>Visby</i> — Largest passenger delivered by a Swedish yard
	DIESEL ENGINES
403	Introduction
	New PC2 development
405	Mirrlees Blackstone extension
407	Sulzer — keeping the credit
409	B & W Behemoth
411	Higher ratings for GMT
413	Interview with Mr. Leo O'Brien
420	Opening diesel options
	FINLAND
425	A rare success in shipbuilding
	look to the future
429	Rauma Repola look to the future
	orders
431	The shipbuilding interest
433	Hatch covers and ramps
435	A new way out for shipbuilding engineering in Finland
	ITALIAN REVIEW
613	After the long wait
615	Italcantieri — lead company in ship design
616	A good year for GMT
619	Ancanap: growth for private
623	Electronics assist flair in shipbuilding
627	Cantieri Navali Riuniti: a new black
629	<i>Ercole Lauro</i> : notable new ship
633	Transadria '80 under construction
	Trieste
	JAPAN
449	Japanese shipbuilding
453	The many activities of Japanese shipbuilding
457	Activities at IHI
	NAVIGATION
437	Introduction
	Mark of confidence for Japanese
439	Decca Survey introduces new
443	Three of a kind from Norwegian
	New satellite/omega navigation
445	Two from Seattle
	World's thinnest Satnav
447	Colour video echo sounder
	Easy to operate new computer
	Ship handling for Nautica

1980

1972

MONTH PAGES	
July	381-480
August	481-528
September	529-600
October	601-656
November	657-720
December	721-768

Features

Bunkers		Italian
December issue	743-751	O
Cargo handling (unitised & ro/ro)		Japan
September issue	541-554	J
Cargo handling (liquids)		Navig
October issue	635-645	J
Car/passenger ferries		Pollut
November issue	669-683	N
Diesel engines		Safety
July issue	403-420	D
Finland		Towa
July issue	425-435	A

81 Valmet, Finland
73 Verolme, Brazil
75 Vickers Shipbuilding, UK
25 Wärtsilä, Finland; & 585, 669
75 Werft Nobiskrug, W. Germany
73 AG 'Weser', W. Germany
87 Yarrow, UK

SHIPOWNERS

22 Bank Line; & 752
29 Bore Line
92 BP
55 DFDS
07 Esso
85 Furness Withy; & 475
75 Gulf Oil
63 Hansa Line
80 Hapag Lloyd
11 Home Lines
79 Isla de Navegacion
98 Kuwait Oil Tanker Co
29 Lauro Group
14 OCL
68 Odfjell
85 Philippines International Shipping Corp
45 Polish Ocean Lines
09 Rowbotham
89 Sealink; & 676, 482
62 Shaw Savill Line
78 Shell; & 597
89 Smit International
82 SNCF
95 United Towing
27 Viking Line
68 Westfal-Larsen & Co
87 Wijsmuller

BROKERS AND

64 H. Clarkson
53 Eggar Forrester; & 385
85 Fearnley & Egers; & 598
85 Howard Houlder
77 Lambert Brothers; & 385
98 R. S. Platou; & 654

SHIPS

68 Andrea Merzario, Italy, Ro/Ro, D
79 Bahia de Malaga, Spain, ro/ro, D
09 Cableman, UK, product tkr, D
92 Cosmos, Du, anti-pollution, D
62 Dunedin, UK, cont, D
29 Ercole Lauro, Italy, cont, D
07 Esso Plymouth, UK, product tkr, D
69 Galloway Princess, UK, ro/ro, D
45 Hoegh Banniere, Nor, ro/ro, D
11 Nordkapp, Nor, patrol, D
73 Olau Hollandia, Den, ro/ro, D
95 Salvageman, UK, tug, D
00 Seabulk Challenger, USA, tug/barge, D
63 Seagrand Ace, Lib, bulk, D
76 St. Anselm, UK, ro/ro, D
92 Svetlomor, USSR, anti-pollution, D
65 Viking Eagle, Sing, oil tkr, D

585 Viking Saga, Fin, ro/ro, D
679 Visby, Swe, ro/ro, D
752 Willowbank, UK, cont, D

TRADE

522 Miscellaneous

VIEWPOINT

483 Mr. Neil Hudson, Salvage Association
531 Mr. Trevor Smith, E. C. Harris & P
ners
603 Sir Yue-Kong Pao, Intertanko
659 LNG training courses
723 Flags of convenience

YARD BUSINESS

478 Monthly
526 Monthly
598 Monthly
654 Monthly
718 Monthly
766 Monthly

SPECIAL FEATURES

BUNKERS

743 Introduction
745 Tramp oil: a versatile independent
747 Do it yourself fuel care
749 Firing up the future: the coal bu
market

CARGO HANDLING REVIEW

(Unitised and ro/ro)
541 Hatch covers and ramps from MacG
543 New Gdynia container terminal
545 Poland deliver the *Hoegh Banniere*
Navire wins major order for J
ramps
549 Jones' heaviest yet
561 Cargo handling devices from Cargos
Shipboard container cranes by M.A.
553 Hydraulics on deck
The Linkspan aid to ro/ro

CARGO HANDLING REVIEW

(Liquids)
635 Introduction
Rubber tank linings for the carri
phosphoric acid
637 Pumping equipment from J. C. Car
Valve control by Lockheed hyd
equipment
639 Level measurement systems from D
Derby
643 Deck tanks from M & J
Hydrostatically-driven submerged
pumps from Framo
645 Chemical carrier with 24 segregated
Tank containers on trial

es

Italian review

October issue

613-633

Japan

July issue

449-457

Navigation

July issue

437-447

Pollution

November issue

685-699

Safety at sea

December issue

729-739

Towage and salvage

August issue

487-500

SHIPS KEY

Bulk	.....	bulk carrier
C	.....	general cargo ship
Cont	.....	container ship
LNG	.....	liquefied natural gas carrier
LPG	.....	liquefied petroleum gas carrier
LASH	.....	lighter aboard ship
OBO	.....	ore/bulk/oil carrier
Ore	.....	ore carrier
Ore/oil	.....	ore/oil carrier
Pass	.....	passenger ship
Ref	.....	refrigerated cargo ship
Ro/ro	.....	roll on/roll off ship
Tkr	.....	tanker
VLCC	.....	very large crude carrier
(other specialist types normally stated in full)		
D	.....	diesel
DE	.....	diesel-electric
GT	.....	gas turbine
T	.....	turbine
TE	.....	turbo-electric

ciation
is & Part-

- CAR/PASSENGER FERRIES
- 669 On the stocks — or down the slipway?
 - 673 *Olau Hollandia* — 13 500 grt ferry from AG 'Weser'
 - 676 *St Anselm* — Variations on a theme from Harland & Wolff
 - 683 Two ferries from Astilleros de Santander SA
 - 679 *Visby* — Largest passenger/car ferry ever delivered by a Swedish yard
- DIESEL ENGINES
- 403 Introduction
 - 405 New PC2 development
 - 407 Mirrlees Blackstone extend the range
 - 409 Sulzer — keeping the crown
 - 409 B & W Behemoth
 - 411 Higher ratings for GMT
 - 413 Interview with Mr. Leo Curran
 - 420 Opening diesel options

- FINLAND
- 425 A rare success in shipbuilding/Wärtsilä look to the future
 - 429 Rauma Repola look to the USSR for orders
 - 431 The shipbuilding interests of Valmet
 - 433 Hatch covers and ramps from Navire
 - 435 A new way out for Hollming/Marine engineering in Finland

ent

al bunker

- ITALIAN REVIEW
- 613 After the long wait
 - 615 Italcantieri — lead company for merchant ship design
 - 616 A good year for GMT
 - 619 Ancanap: growth for private stocks?
 - 623 Electronics assist flair in ship design
 - 627 Cantieri Navali Riunti: back towards the black
 - 629 *Ercole Lauro*: notable new container ship
 - 633 Transadria '80 underlines growth of Trieste

Cargospeed
M.A.N.

- JAPAN
- 449 Japanese shipbuilding
 - 453 The many activities of Hitachi Zosen
 - 457 Activities at IHI

W

carriage of

c. Carter

hydraulic

om Davis of

erged cargo

gated tanks

- NAVIGATION
- 437 Introduction
 - 439 Mark of confidence for Decca Radar
 - 443 Decca Survey introduce new development
 - 443 Three of a kind from Norway
 - 445 New satellite/omega navigation system
 - 445 Two from Seattle
 - 447 World's thinnest Satnav
 - 447 Colour video echo sounder
 - 447 Easy to operate new compact Loran receiver
 - 447 Ship handling for Nautical Academy

POLLUTION

- 685 Costing the clearance options
- 692 Anti-pollution vessels go into service
- 696 Off-loading — a technique for all seasons
- 697 Springsweep — an advance in surface oil catching technique

SAFETY AT SEA

- 729 Introduction
- 735: a unique synthesis
- 733 The cleaning of America: interview with Rear Admiral Wayne Caldwell, US Coast Guard
- 735 New SAR craft
- 739 Buoy safety

TOWAGE AND SALVAGE

- 487 The long haul
- 487 Lloyd's Open Form: prevention as good as cure?
- 489 Smit International: new leads in towing practice
- 495 *Salvageman*: 20 000 hp ocean-going tug for United Towing
- 497 Saving oil to salve conscience
- 499 New multi-purpose tugs